

SOTHEBY & CO.

34 & 35 NEW BOND ST., LONDON, W.1

CATALOGUE
OF
**FINE SCIENTIFIC INSTRUMENTS
WATCHES AND TABLE CLOCKS**

INCLUDING

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The Property of SIR EWAN MACPHERSON-GRANT
The Property of THE LATE SIR A. CHESTER BEATTY
(Sold by Order of the Executors)

Day of Sale:
TUESDAY, JUNE 25th, 1968
AT **TWO-THIRTY P.M. PRECISELY**

1968

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CATALOGUE
OF
FINE SCIENTIFIC INSTRUMENTS
COMPRISING
A JAPANESE 4-DRAW TELESCOPE
AN EARLY 18TH CENTURY SURVEYOR'S LEVEL, by *Thomas Heath*
A RARE EARLY MARSHALL MICROSCOPE
AN EIGHT-DAY MARINE CHRONOMETER, by *Charles Frodsham*
AN IVORY PILLAR DIAL FOR THE ITALIAN HOURS, DATED 1573
SILVER "BUTTERFIELD" DIALS, by *Michael Butterfield* and *Nicolas Bion*
IVORY DIPTYCH DIALS, MICROSCOPES, POCKET GLOBES AND
UNIVERSAL EQUATORIAL SUN DIALS

AND

WATCHES AND TABLE CLOCKS

COMPRISING

EARLY QUARTER-REPEATING VERGE WATCH, by *Thomas Tompion*, no. 144
A SCANDINAVIAN SILVER-CASED CHAISE WATCH, signed *Peder Nottestad, Christiania*
A FOUR-TRAIN VERGE CHAISE WATCH, signed *Sebastian Bauman*
A GOLD PAIR-CASED HALF-QUARTER REPEATING CYLINDER WATCH,
by *Thomas Grignion*
GOLD AND ENAMEL CASED WATCHES AND CHATELAINES
BREGUET NO. 2183. A QUARTER REPEATING RUBY CYLINDER
A SIXTEENTH CENTURY CIRCULAR TABLE CLOCK WITH THE INSCRIPTION
Pierre Avvray
AND
A LATE SIXTEENTH CENTURY TABERNACLE CLOCK

WHICH WILL BE SOLD BY AUCTION
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Day of Sale:
TUESDAY, JUNE 25th, 1968
AT TWO-THIRTY P.M. PRECISELY

On View at least Two Days Previous (Not Saturdays)
Catalogues may be had

A Printed List of all Prices and Buyers' Names at this Sale can be
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CATALOGUE
OF
**FINE SCIENTIFIC INSTRUMENTS
WATCHES AND TABLE CLOCKS**

DAY OF SALE:
Tuesday, June 25th, 1968
AT TWO-THIRTY P.M. PRECISELY

SCIENTIFIC INSTRUMENTS

Various Owners

1 A small universal equatorial Dial, with silvered chapter-ring, altitude quadrant, and compass rose, the base on three threaded levelling feet and with cross levels, *diam. of chapter-ring* 76.5mm., contained in mahogany box with printed equation table, signed on the chapter-ring, *Newton & Co., 3 Fleet Street, London, circa 1910*

2 A small universal equatorial Dial, *signed* on the chapter-ring, *Elliott Brothers, 449 Strand, London*, with silver chapter-ring, altitude quadrant, and compass rose, the base on three threaded levelling feet and with cross levels, *diam. of chapter-ring* 91mm., *circa 1900*, contained in mahogany box with printed instructions and equation table

3 A brass Butterfield-type Pocket Dial, with adjustable bird gnomon, and hour scales for 43° , 46° , and 49° , the reverse of the base engraved with a table of towns and latitudes, *signed* either side of the gnomon, *L'Anglois aux Gallerie à Paris*, *length* 70mm., contained in original fish-skin covered case (2)

4 A universal equatorial Dial, standing on three levelling screws, the compass rose, altitude scale and chapter-ring silvered, lacking the front bearing for the folding gnomon, *signed Parker, Princes Street, Leicester Square*, in original fish-skin covered case, *diam. of chapter-ring* 115mm., *early 19th Century* (2)

5 A FINE UNIVERSAL EQUATORIAL DIAL, the silvered chapter-ring, *signed Fraser Optician to His Majesty, London*, the altitude quadrant and compass rose also silvered, standing on three adjustable feet, the base inset with cross levels, *diam. of chapter-ring* 143mm., *circa 1780*

6 A portable Compass, *by Bywater Dawson & Co. of Liverpool*, the printed card surrounded by a raised brass scale divided into 360° in an anti-clockwise direction, the heavy needle of triangular shape with a ruby pivot, in mahogany square block with hinged lid, 150mm. square; and a small octagonal horizontal Sundial, the plate with the *inscription* *Tyme Flies*, and the *date* 1665, *greatest diameter* 130mm. (2)

6A Lane's Improved Globe. A $2\frac{1}{2}$ in. terrestrial Pocket Globe, with the *inscription* *Lane's Improved Globe, London*, contained in fish-skin covered case lined with celestial gores, *dated* 1833 (2)

7 A good Pocket Celestial Globe, *by J. & W. Cary of London*, resting on pivots, in original fish-skin covered case, 3in., *circa 1800* (2)

8 A small-sized Pocket Terrestrial Globe, by *L. Cushee*, contained in contemporary fish-skin case lined with the hand-coloured gores of a celestial globe, 68mm. diam., late 18th Century (2)

9 A complete, portable, money-changers Set of Weights, the scales with steel beam and brass pans, with eighteen named weights contained in receptacles hollowed out of the base, the fractional weights in a small compartment with brass lid, the lid with the label of the maker *Johann Wilhelm Forsthoff*, length 173mm., 17/18th Century

10 An 18th Century brass Pair of Gunner's Callipers, by *M. Berge of London*, the inside of the limbs divided as a sector of lines, the surfaces marked as a twelve-inch rule and with powder scales and proof tables, the joint with a scale of inches and degrees

11 A brass-bodied Culpeper-type Microscope, supported on three scrolling legs, on circular brass base contained in mahogany pyramid box with drawer containing two objectives, stage forceps and a slide carrier, height of box 318mm.

12 A large binocular Microscope, no. 5137, by *Ross* (Zentmayer's model) with swinging substage, the stage with mechanical and rotating motions, four objectives including Ross's 1/25in. dray and immersion lens, ten eyepieces, a substage condenser with wheel of stops, low power condenser, spot lens, drum-measuring eyepiece, double nosepiece, drawing prism, selenite substage and various other accessories contained in an inner case, height 440mm., in contemporary mahogany case

13 A binocular Microscope, no. 13690, by *R. & J. Beck*, with rotating stage and substage diaphragm, with rack-focusing on the eye-pieces and the stage on folding brass base, in case with accessories, length of box 400mm.

14 AN UNUSUAL GILT-METAL ASTRONOMICAL VOLVELLE, the obverse with a scale of degrees to 360, and two volvelles marked with the signs of the Zodiac, sub-divided into degrees, a scale of months sub-divided into days, and a scale of hours divided 1-12-12, and with a movable alidade, the reverse also with an alidade and single volvelle with solar and lunar indices, the volvelle engraved with the lunar aspects and a double twelve hour scale and an aperture for the phases, the central plate with a 24-hour scale, a double 12-hour scale, a lunar scale, scales for the length of night and the time of sunset, and the *inscription Lvdonicvs Martinot fecit, 1631, 80mm. diam.*, contained in fish-skin covered case (2)

15 An unsigned brass Circumferentor, with reversed scales of 180°, the base-plate mounted with a compass, the alidade and base with aperture and blade sights, the alidade with vernier scale, *radius 93mm., probably French 18th Century*

16 A brass horizontal dial with folding gnomon, and coloured paper compass rose, contained in engraved ivory globe also containing a lunar volvelle, *63mm. diam., probably French, 18th Century*

17 A silver screw-top Box, being a Pocket Compass by *George Adams of 60 Fleet Street, London*, the blued-steel needle with inlaid gold initials identifying the north and south points, *86mm. diam., circa 1750*

18 A universal equatorial Sundial in brass, the chapter-ring hinged to the compass and rotating on a square brass base, marked with degrees, possibly for variations, the chapter-ring with the initials TW and the date 1741; and a small German wooden sinical Quadrant with ivory alidade, the figures and scales filled with black and red wax (2)

19 A good ebony Back-Staff, with box-wood scales and *signed* on a box-wood insert *John Cranevelt Middelbur (g)*, *length 25in.*, with four later sights, *probably English, 18th Century* (5)



20 A Japanese wooden "Universal Equatorial" Sundial, one end of the base fitted with a compass, the other end halved in thickness to admit the hinged hour-plate with folding gnomon with a folding strut engaging in a series of notches in the base, *length* 101mm.; a wooden geomancer's Compass, 109mm. *diam.*; and a cast bronze plate for a similar compass, 106mm. *diam.* (3)

The Property of H.H. the Prince de Ligne

21 A FINE JAPANESE 4-DRAW TELESCOPE, *unsigned and undated*, the body and draw tubes of pasteboard lined on the inside with thin pine-wood and lacquered on the outside in black and red, extensively decorated with gilt tooling, the wood and brass objective mount and aperture stop and two of the eyepiece lenses present, the objective lens and one lens in the erecting eye-piece missing, *overall length* closed with protective end caps in place, 82cm., *length* opened for use approx. 275cm., *diam. of body tube* 9cm., *late 18th or early 19th Century*, some worm holes

** This mode of construction and decoration resembles that of late 17th Century European telescopes which were probably known to the Japanese through the Dutch trading stations, though it is unusual to have a case.

There is a similar, though smaller, telescope in the Museum of the History of Science, Oxford, which is attributed to Iwabashi Zenbei (1756-1811) of Sakai, near Osaka, who made telescopes. From the time of Iwabashi to the Meiji restoration in 1868, numerous telescopes were produced in Osaka and Edo (Tokyo)

[See ILLUSTRATION]

Other Properties

22 A small European Astrolabe, the reverse of the mater with an umbra versa, umbra recta scale and circular scales for the months and signs, the edge of the mater with scales for degrees and hours, the mater containing two plates, one uncompleted for 43° , the other for 53° ?, the rete pierced and engraved with pointers for various fixed hours with additional markings for magnitude and associated planets, the front with a rule, the back with an alidade with sight veins, the following inscription is on the rete *Ioannes Bos, 1597, dei 24 marti, diam. 104mm.*

23 An Islamic Astrolabe, the inside and the outside of the mater engraved with pictorial representations of the signs of the Zodiac, containing four double-sided plates, the pierced rete cut out with a chisel, the sights on the alidade unpierced, *116mm. diam.*

24 A BRASS ASTROLABE, the rete for 34 fixed stars, the decorative tracery of unusual pattern incorporating a geometrical design with crescents within the ecliptic circle, two plates for latitudes 41° and 42° , with lines for Babylonian in addition to the usual unequal hours, and a tablet of horizons (Western type), a universal stereographic projection (az-Zarqellu/Gemma Frisius type), on the reverse two shadow squares, a scale of co-tangents, a sine/cosine diagram, and a diagram of unequal hours (for latitude 41°) for use with the alidade as a sundial, the alidade lacks one sight, the pin and horse are missing, *diam. 152mm., c. 1700, probably Turkish*

** A very well made and finely engraved example. The style of the engraving, the arrangement of the scales on the back and the latitudes for which one of the plates and the unequal hour diagram are drawn indicate that this is one of the rare astrolabes made in Turkey.

Cf. the astrolabes of 'Abdî (1713), of Ibrâhîm al-Muftî (1708/9), and of Mustafâ Ayyûbî (1698/9 & 1702/3) recorded by Mayer, *Islamic Astrolabists*, pp. 32, 49 and 79.

See also Maddison, *Supplement to Catalogue of Billmeir Collection*, pp. 28-9, no. 171A.

25 A thirty-hour Deck Chronometer, no. 736, the spring detent escapement with bi-metallic compensated balance and helical spring, the silvered dial with subsidiary seconds and up-and-down scale, in mahogany deck box with ratchet key, made by *Breguet & Co.*, and used by the Desert Survey Office in Egypt in 1925, *diam. of dial 65mm.*

26 A two-day marine Chronometer, no. 1264, by *Brockbank & Atkins*, the silvered dial with subsidiary seconds and up-and-down scale, gimballed in mahogany box, the front with inset enamel plaque, diam. of dial 81mm., mid-19th Century

27 R. T. Gould, *The Marine Chronometer, Its History and Development*, London, 1923, author's presentation copy inscribed *H. Harris, With the compliments of Rupert T. Gould*, 22.V.31

28 A one-day Chronometer, no. 568, by *John Roger Arnold*, the spring detent escapement converted from Arnold's to Earnshaw's using the original 'scape wheel, with inverted "Christmas tree" balance and steel helical spring, the silvered dial with subsidiary seconds and original hands, in brass box gimballed in brass bound mahogany box, diam. of dial 3½in., early 19th Century

29 A two-day marine Chronometer, no. 171, signed *John Carter, Tooley Street, London*, the silvered dial with subsidiary seconds and up-and-down, the spring detent escapement with compensated balance and steel helical spring, in brass box in gimbals, pivoted in two brass pillars on wooden base, diam. of dial 85mm.

30 A two-day marine Chronometer, no. $\frac{628}{15464}$ by *Litherland, Davies & Co., Liverpool*, numbered on the dial and on the inside of the brass box, the spring detent escapement with bi-metallic balance and steel helical spring, the silvered dial with subsidiary seconds and up-and-down scale, in brass box gimballed in brass bound mahogany box, diam. of dial 93.5mm., circa 1830

31 A two-day marine Chronometer, the back-plate with an unusual engraved pattern, the silvered dial with the inscription, *Shepherd & Son, Makers to the Royal Navy, 53 Leadenhall Street, London*, no. 1689, and subsidiary seconds and up-and-down scale, the spring detent escapement with compensated balance and steel helical spring, diam. of dial 93mm., gimballed in brass-bound mahogany box, with original ivory, with key

The Property of Sir Ewan Macpherson-Grant

32 A GOOD EIGHT-DAY MARINE CHRONOMETER, no. 10033, by *Charles Frodsham*, with *Frodsham's balance*, the spring detent escapement mounted on a subsidiary platform, the silvered dial with subsidiary seconds and up-and-down scale, in brass bound mahogany box, *diam. of dial 113mm.*, *circa 1875*

** This type of balance is closely allied to those by Winnerl, Hartnup and Kullberg, see R. T. Gould, *The Marine Chronometer*, London, 1923, p. 193.

Other Properties

33 An eight-day Waltham keyless lever Deck Watch, the half-plate movement with two barrels, decorated with snailing, with the *number NW 260*, and a broad arrow, the matted silvered dial with subsidiary seconds, gimbaled in brass bound mahogany box

34 An eight-day marine Chronometer, no. 885, by *Brockbanks & Atkins*, the movement with reversed fusee, spring detent escapement, compensated balance and steel helical spring, the silvered metal dial with subsidiary seconds and up-and-down scale, *signed Carter, Cornhill*, gimbaled in lower half of mahogany deck box, *diam. of dial 90mm.*

35 A two-day marine Chronometer, no. $\frac{2}{624}$, signed *Barrauds, Cornhill, London*, with spring detent escapement, compensated balance and steel helical spring, the silvered dial with seconds at 12 o'clock, and up-and-down disc visible through an aperture, *diam. of dial 88mm.*, in brass box only

36 A two-day surveying Chronometer, by *Thomas Mercer of St. Albans*, no. 14720, the silvered dial with up-and-down and subsidiary seconds, contained in aluminium case and fitted with minute and seconds contacts

37 A rare 18th Century Italian surveyor's Level, the sight tube with level mounted on the side supported on an arm between centres and with a threaded fine adjustment on turned baluster pillar with adjustable tripod base and with rotating level mounted on the pillar, signed *Rodella Profes.mec: della Imp: R. Accade: di Padova, length 588mm.*

38 AN EARLY 18TH CENTURY SURVEYOR'S LEVEL, by *Thomas Heath*, with opposed telescopes, mounted below a finely engraved silvered compass rose set with crossed levels, the telescopes mounted with large folding composite sights, contained in original baize-lined wooden box, with levelling head and tangent screw for the traverse, pivotted threaded sockets for the three sectional legs, *length between sights, 25in.*

** Thomas Heath was one of the most famous of the 18th Century instrument makers, working through the second quarter of the 18th Century.

The Property of a Lady

*A Collection of Scientific Instruments, formerly the property of
Edward King, Esq.*

39 A UNIVERSAL RING DIAL, by Nairne & Blunt, London, the central bar engraved with the scale of months, degrees and declination, the face with two reversed quadrants for the north and south latitudes, the reverse of both rings divided into a quadrant for use with a pin gnomon, 232mm. diam., *circa* 1800

40 AN 18TH CENTURY SOLAR MICROSCOPE, with two wooden shagreen covered bodies, one to carry slides, the base with hinged mirror rotated by means of gearing (2)

41 A RARE EARLY MARSHALL MICROSCOPE, the wooden mounted cardboard body covered with red leather decorated with gilt designs and blind stamping (eye-piece missing), the body mounted on a rectangular brass pillar with ball and socket joint, on hexagonal mahogany base with drawer containing spare objectives, stages, etc., *height to top of pillar* 410mm., *circa* 1700

** Reputed to be once the property of James Ferguson, the famous lecturer on philosophical subjects.

See *The History of the Microscope* by Clay and Court, London, 1932, pp. 90 et seq.

[See ILLUSTRATION]

42 A THIRD FORM OF THE CULPEPER MICROSCOPE, the wooden mounted cardboard body covered with bleached sharkskin, the drawer covered with green parchment with gold stamped decoration, the body with wooden mounts supported above the stage on three baluster turned pillars, the stage in turn mounted, offset turned brass pillars rising from a circular wooden base, with live plate, slide carrier with one slide and stage condenser, *height* 350mm., *mid-18th Century*



43 A two-and-a-half-inch reflecting Telescope, the brass body covered with grained leather, 18th *Century*

44 An attractive miniature reflecting Telescope, mounted on baluster turned brass pillar screwing into the top of the carrying case, diam. of mirror $1\frac{1}{4}$ in., the case with the label of *Edward Scarlett, Optician to His Majesty King George II*

45 A miniature reflecting Microscope with shagreen-covered brass body; one magnifying; one diminishing; and one dispersing lens, all mounted on turned wooden stands (4)

46 A small brass Telescope Body covered with shagreen, length 105mm.; the body of a Culpeper-type Microscope, length 135mm.; an ebony Stand for a telescope; a brass Solar Instrument on a folding tripod base; an incomplete screw-barrel Microscope; and five other pieces (10)

47 A pillar Sundial made from Ferguson's printed plate, for latitude 51° , 30in., with the inscription *presented to E. King Esq. by James Ferguson*; a 3in. Celestial Globe; Ferguson's Luminarium with a comparative civil/lunar calendar, the reverse with a solar/lunar volvelle; a paper Quadrant with manuscript barometric scale, probably in Ferguson's hand; and a similar Compass Scale (5)

48 A brass Clinometer, by *Haas of London*, in original shagreen case; a brass Surveying Instrument, by *Nairne & Blunt*; a brass-cased Level; a pair of wooden Dividers, with geared quadrant and sights; and a wooden case containing two pith Galvanometers (5)

The Property of the late Sir A. Chester Beatty

49 A small Pocket Globe, by *Minshulls*, the fish-skin case lined with the gores of a celestial globe, the globe pivotted and resting in two slots in the case, $2\frac{3}{4}$ in. diam., marked with Anson's and Cook's tracks and the place of Cook's death, *London, circa 1800*

50 A cylindrical ivory Box, the base with a lunar volvelle for converting lunar to solar hours and showing the moon's aspects, the lid with a table of towns and latitudes in France, the inside of the base with a similar gilt-metal table for England, both *dated 1672*; a turned ivory Globe marked with the Zodiac, the polar circles and the tropics, and decorated with engraved foliage; a Dutch silver Writing Tablet with three ivory leaves, the scales with volvelles for a perpetual calendar, the front with a coat of arms and the *initials WCIvE*; and a modern weather forecasting Volvelle by *Negretti & Zambra* in original cardboard box (4)

51 A FINE DUTCH SILVER CALENDAR BOX, the inside gilt, the lid with a volvelle decorated with engraved scrolling foliage, and with apertures for selected feast days in the month, the sign and symbol of the Zodiac, the month with the number of days, the length of day and night, and the time of sunrise and sunset, the reverse with a volvelle for the days of the week and the date, 78mm. diam., *18th Century*

52 A SMALL UNIVERSAL RING DIAL, with silvered chapter-ring and declination bar, the reverse with an altitude shadow quadrant, *probably English, mid-18th Century, 85mm. diam.*

53 AN UNUSUAL RECTANGULAR UNIVERSAL EQUATORIAL DIAL, the hour scale of a regular outline and silvered to match the altitude quadrant and compass rose, the base of gilt-metal with folding plumb-bob, the base pierced and engraved with floral decoration, the reverse of the compass rose with a short table of towns and latitudes, and the *signature Lorenz Gräsl a Augsburg, 66mm. square, circa 1775*

** Lorenz Grassl was born in Ingstadt and started work in Augsburg about 1740.

54 AN UNUSUAL FRENCH UNIVERSAL EQUATORIAL DIAL, the gilt-metal base in the form of a lengthened octagon engraved with the months and signs and symbols of the Zodiac, with silver equatorial ring, altitude quadrant, and frame for the plummet (bob missing), the reverse of the base side with the *inscription Hachard à Besançon, width 74mm., 18th Century*

55 A GOOD SILVER UNIVERSAL EQUATORIAL DIAL, the octagonal base with inset compass, a table of towns and latitudes, and the *signature Johan Martin in Augsburg, contained in lower half of original leather-covered case, length 50mm., circa 1700*

** Johan Martin had moved from his birth-place at Frankfurt am Main before 1669, the date of which he was married in Augsburg. He died in 1720 when his business was taken over by Johann Willebrand.

56 A FINE OVAL SILVER POCKET DIAL, made for latitude 49, the reverse of the compass rose, the centre of the dial and the folding gnomon decorated with engraved foliage, the reverse *signed Cremstorff à Paris*, length 59mm., early 18th Century

** These oval silver dials are typically French. There is only one other recorded example of this maker's work, a similar but larger dial in the Billmeier Collection at the Museum of History of Science at Oxford, Catalogue no. 73.

[See ILLUSTRATION]

57 A SILVER "BUTTERFIELD" POCKET DIAL, with bird gnomon and hour scales for 43°, 46° and 49°, the reverse with the latitude table *signed Martin au Temple à Paris*, 84mm. long, early 18th Century

** There is no record of an instrument maker by this name working in Paris but he may be the same as the Martin of Versailles who made the surveying instrument in the Conservatoire des Arts et Métiers.

58 AN UNUSUAL SILVER "BUTTERFIELD" DIAL, by *Nicolas Bion of Paris*, with folding bird gnomon and hour scales, for 40°, 45°, 50° and 55°, the reverse with a table of towns and their latitudes, contained in original fish-skin covered case, 70mm. long, circa 1700 (2)

** Nicolas Bion was the author of the famous book on the construction and use of mathematical instruments. The standard latitudes for this type of instrument are not used on this instrument, which has therefore a far greater application than the rest.

59 A FINE SILVER POCKET DIAL, by *Michael Butterfield*, with folding bird gnomon and hour scales for 43°, 46°, 49° and 52°, the reverse with a table of latitudes and towns, the centre of the back of the compass rose inscribed *Premier Cadron, signed Butterfield à Paris*, in original green fish-skin covered case, 78mm. long, circa 1700 (2)

[See ILLUSTRATION]



56



57



58

60 AN IVORY DIEPPE DIAL, the upper leaf with equatorial and polar dials, the inside of the lid with a silver calendar volvelle, the base with a horizontal dial centred with an unusual silver compass rose showing the bearings of several towns, and with silver azimuth scale, the seasonal movement effected by a rotating plate set into the base, the plate centred with a perpetual calendar square and the *inscription* *Fait par Gabriel Bloud à Dieppe, 81mm. wide, circa 1700*

61 A SIMILAR DIEPPE DIAL, but with no polar scale on the lid, the volvelle of brass, with additional lunar indications converting lunar to solar hours and showing the simulated phase, the compass rose paper centred with a hand-coloured star, the *inscription* on the bottom reads, *Fait & Inu par Charles Bloud à Dieppe, 80mm. wide, circa 1690*

62 ANOTHER LATER IVORY DIEPPE DIAL, the lid with polar and universal equatorial dial, the inside of the lid with a pewter lunar volvelle, the compass rose similar to the previous lot, but uncoloured, the rotating disc on the base and the azimuth scale also pewter, *unsigned, 74mm. wide, circa 1720*

[See ILLUSTRATION facing page 18]

63 A VERY RARE IVORY PILLAR DIAL, for the Italian hours, *dated* 1573, the locating scales for the rotating gnomon divided at the top by months, and the bottom by signs of the Zodiac, the hour scales divided into two sets for the summer and winter signs, each with two sets of hour lines, those for the hours before noon filled in red, those for the afternoon filled in black, the base with the *inscription* *D.STEPHAN.FLO.FA.A.S.1573, height 112mm., probably Italian*

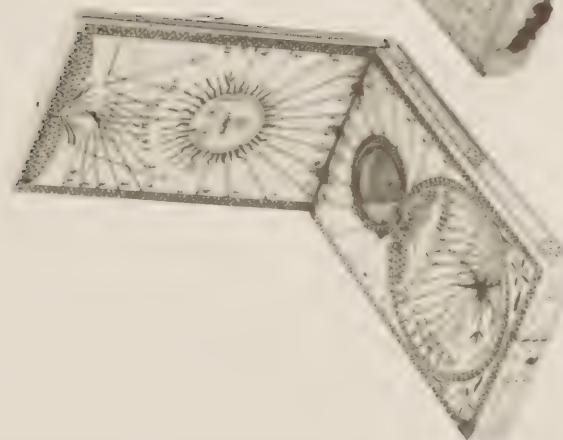
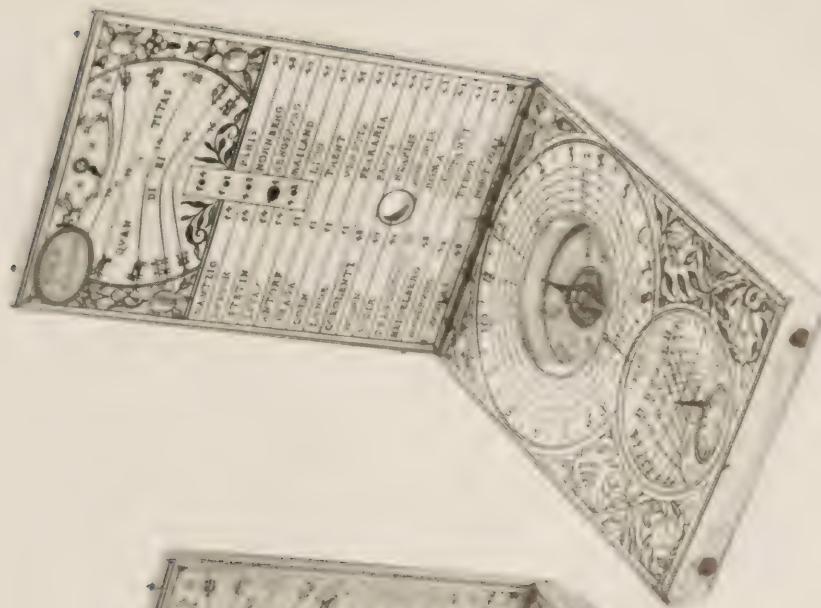
[See ILLUSTRATION facing page 18]

64 AN IVORY TABLET DIAL, the upper leaf decorated with geometric floral pattern filled with black and red wax, the inner leaf with a vertical dial for the string gnomon in the lower half, above a pin gnomon dial for the hours from sunrise, the upper surface of the lower lid with inset compass, and horizontal dial also for use with the string gnomon, below the compass a sunk dial with pin gnomon for the Italian hours, the lower surface with a geometric pattern, 79mm. by 48mm., *circa* 1600

[See ILLUSTRATION]

65 A GOOD IVORY DIPTYCH DIAL, by *Leonhard Miller*, the upper surface of the top leaf decorated with engraved foliage, centred with a windrose divided into half points which are named, the north point with a circular aperture for viewing the compass, the inner surface with holes for the string gnomon for latitude $42^{\circ}\text{--}54^{\circ}$, increasing by threes, the upper surface with a declination dial marked with the lengths of the day and referred to the signs of the Zodiac, in the lower part a table of towns and latitudes, the upper surface of the lower leaf with inset compass marked with Miller's fleur-de-lys and surrounded by the scales for a horizontal dial with multiple divisions for the various latitudes, below this, a pin gnomon dial for the *horae abortus et occasus*, the lower edge with the maker's punched signature, *Lienhart Miller* and the date 1626, the lower surface of the lower leaf also decorated with engraved foliage and centred with a volvelle for converting lunar to solar hours at the hinge, the maker's initials and trade mark twice, 92mm. by 57mm., *Augsburg*, 1626

[See ILLUSTRATION]



66 ANOTHER IVORY DIPTYCH DIAL, by *Leonhard Miller*, the upper surface of the top leaf centred with a combined windrose and way-wiser with gilt-brass index, in the centre a 16-pointed star marked with the appropriate compass bearings surrounded by two rings, the inner divided into 32 starting from the East, the outer marked with the eight classical winds, above and below engraved stylised clouds with the heads of the four winds in the spandrels, the leaf pierced for viewing the compass, the inner surface of the upper leaf similar to that on the previous lot, but with engraved floral decoration flanking the declination scale, the lower leaf also similar to the previous lot but with additional floral decoration and four heads representing the wind punched in the base of the compass and with a sunk dial in the lower portion, maker's mark appears also in the compass and the *signature Linhart Mieler* and the *date 1625* in the lower dial, the reverse of the base with the maker's mark and initials repeated, in the centre a lunar volvelle for converting lunar to solar hours with extra outer scale marked for the four quarters of the moon, the volvelle pierced to show the simulated phases of the moon, the surface of the volvelle marked with the aspects, the vacant space at the top and bottom of the leaf filled with engraved fruit decoration, 112mm. by 72mm., compass needle replaced, *Augsburg, 1626*

[See ILLUSTRATION facing page 20]

WATCHES

67 A QUARTER-STRIKING CYLINDER CHAISE WATCH, no. 1416, by *John Ilbery of London*, the white enamel dial with centre seconds subsidiary dials for strike-silent, the hours and minutes, the age of the moon and fifth seconds, the gilt-metal inner case pierced and engraved with scrolling foliage, the outer case also gilt-metal with paste-set bezel, pierced and engraved decoration, the back with an oval enamel miniature of a girl sleeping in a landscape, surrounded by a border of red, *basse taille* enamel within a paste-set frame, 107mm. diam., *London, circa 1780*

[See ILLUSTRATION]

68 A VERGE CLOCKWATCH WITH ALARUM, the applied silver chapter-ring with arched minutes centred with a gilt-metal alarum-setting disc and with engraved laurel border, the signature *Bartholomae Schmidt*, the movement with separate quarter-repeating train, operated by a pull, contained in gilt-metal pair cases, the inner pierced and engraved with inhabited scroll-work, the outer covered with horn under-painted to imitate tortoiseshell, 101mm. diam., possibly *Swiss, early 18th Century*

69 A RARE SCANDINAVIAN SILVER-CASED CHAISE WATCH, the verge movement striking the hours, quarters, and with alarum, *signed* on the back-plate *Peder Nottestad Christiania*, the silver champlevé dial with sunk centre containing the alarum-setting disc and with four apertures for the day, date, month and year, in single silver case, the bezel with two inscriptions, the case pierced and engraved with scrolling foliage and, by the pendant, a military trophy balanced by the Royal Cypher surmounted by a crown and supported by rampant lions, the back of the case with a shutter to cover the winding holes, 108mm. diam., *2nd half of the 18th Century*

70 A SILVER-CASED VERGE CHAISE CLOCKWATCH, the back-plate with the signature *Jo. Cristoff Kerizer*, the later silver dial engraved with scrolling foliage, the case with geometrically pierced cover, the band with pierced and engraved scrolling foliage, the back similarly decorated, 106mm. diam., *late 17th Century*





71 A SILVER PAIR-CASED ALARUM CHAISE CLOCKWATCH, the back-plate with finely pierced cock and the *signature* *Wilhelmus Koberle Eystet*, the silver champlevé dial with single steel hand, and in the centre the alarum-setting disc, the inner silver case pierced with repoussé decoration of scrollwork, the outer case similarly decorated, in the centre a shield of arms, 110mm. diam., *circa* 1710

** William Köberle was working in Eichstätt from 1680-1710. The alarum train is unusual, it is placed under the dial and wound through the dial.

72 A FINE FOUR-TRAIN VERGE CHAISE WATCH, the pillars of the movement with applied silver decoration and trains for going hours, quarters and alarum, the back-plate *signed* *Sebastian Bauman*, the enamel dial with pierced and engraved gilt-metal hands, the inner case silver and pierced and engraved with stylised foliage and scrollwork surrounding a classical scene of a sacrifice to Diana, the case *signed* with the initials *F.C.L.*, the outer case of silver-mounted fish-skin, the back centred with an applied pierced and engraved silver rosette, 125mm. diam., *German*, *circa* 1750

[See ILLUSTRATION]

73 A pair-cased verge Watch, no. 7816, the back-plate *signed* *J. Worke, London*, the silver champlevé dial with arched minutes, the silver inner case *numbered* and *hallmarked* 1778, the outer case covered with shagreen decorated with gilt nails; and a verge Watch, no. 5650, *signed* *Wrench, London*, with silver champlevé dial and steel hands, in silver pair cases, *circa* 1720 (2)

74 A gold-cased open-faced verge Watch, winding through the gold engine-turned dial, the case set with turquoise and decorated with a spray of roses raised above the matted ground, 35mm. diam., *late 18th Century*

75 A FINE 17TH CENTURY PIERCED AND ENGRAVED SILVER CASE for a Clockwatch or alarum, with original silver dial applied to its original gilt-metal plate, the centre decorated with engraved flowers to match the decoration of the case, fitted with later lever movement, no. 64795, signed *C. Simpson, Samuell & Co., Liverpool, 52mm. diam.*

[See ILLUSTRATION]

76 A GOLD-CASED DOUBLE-DIALLED VERGE WATCH, signed *L'Epine à Paris*, both dials with white enamel, with gilt centre decorated with foliage heightened with coloured enamel, the case decorated with engraved rope-work, 42mm. diam., circa 1790

[See ILLUSTRATION]

77 A GOLD AND ENAMEL-CASED DUMB-REPEATING VERGE WATCH, no. 681, by *James Vigne of London*, the case decorated with basse taille foliage (restored), with diamond-set push, 49mm. diam., circa 1760

78 A FINE SILVER-CASED VERGE CALENDAR WATCH, by *Thomas Chamberlain of Chelmsford*, the tangent-screw set-up with silver rosette and pierced blued-steel wings, the long balance cock screwed to the plate, the dial with silver chapter-rings for the hours and date, the centre with pierced and engraved flowers in gilt-metal over a silver ground, single steel hand, the back of the case with a shutter to cover the winding hole, 49mm. diam., circa 1640, with early gilt-metal crank key (2)

[See ILLUSTRATION]



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75

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81

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79 A SILVER-CASED VERGE ALARM WATCH, by *M. Marseilles of Tours*, the silver dial-plate and alarm disc decorated with engraved foliage, with gilt-metal chapter-ring, the case pierced and engraved with an elaborate pattern of flowers springing from a point on the back of the case opposite the pendant, in silver-mounted leather-covered outer case, 51mm. diam., 1st half of the 17th Century

** The maker quoted above agrees with Baillie's entry for a similar watch in the Mallett Collection, the inscription actually reads "à Fours M Marseille".

[See ILLUSTRATION facing page 24]

80 A 17TH CENTURY TURKISH WATCH, the oval verge movement with pierced floral pillars, and engraving on the back-plate, the set-up square with click below the barrel and index with circular scale on the back-plate, the table of the cock pierced and engraved with symmetrical floral pattern and with long typical solid foot, signed in Turkish, the dial-plate with applied gilt-metal Turkish chapter-ring, and Turkish floral decoration in translucent and solid colour, in gilt-metal oval case, with split bezel and shutter for the winding hole, 45mm. by 35mm., probably made in Galata

[See ILLUSTRATION facing page 24]

81 A FINE GOLD PAIR-CASED HALF-QUARTER REPEATING CYLINDER WATCH, no. 1984, by *Thomas Grignion and Son, London*, with exceptionally rare gold dust-cap, the white enamel dial with gold arrow hands, the inner case pierced and engraved with scrolling foliage, and with the number by the pendant, the outer case pierced with a rope design, the back with an oval reserve containing a monogram and surrounded with a stylised floral wreath, hallmarked 1777, 55mm. diam.

[See ILLUSTRATION facing page 24]

82 A GOLD PAIR-CASED VERGE WATCH, *signed Vezit à Paris*, with a fine white enamel dial, the outer case decorated with an intertwining border of blue and white enamel surrounding an enamel miniature of putti on a pink ground within a blue frame pendant from a ribband, attached to a matching gold and enamel chatelaine, *length overall 190mm., circa 1780*

[See ILLUSTRATION]

83 AN UNUSUAL SMALL QUARTER-REPEATING VERGE WATCH, *no. 1075, by André of Paris*, the white enamel dial with steel hands, the back of the case decorated with gold-foil stars and transparent blue enamel over a guilloché ground, the bezels with green enamelled leaves separating split pearls simulated by enamel, pendent from a gold and enamel chatelaine, the front of the hook with an oval miniature in coloured gold within a frame of split pearls flanked by gem-set trophies of coloured gold and enamel and surmounted by a similar wreath tied with a gold ribbon, *length overall 65mm., circa 1780*

** Probably the work of Noel Augustin André, who worked in the Manufacture d'Horlogerie in Paris which was directed by Romilly.

[See ILLUSTRATION]

84 A GOLD AND ENAMEL WATCH AND CHATELAINE decorated with miniatures after Moser *en grisaille* on a chocolate ground, within a green and white frame on a dark blue ground, the watch *no. 3644 by William Hughes of London*, the chains of the chatelaine decorated in white and green enamel to match the frames of the miniatures, with gold key, *length overall 167mm., circa 1790*

** William Hughes, who was working in London at the end of the 18th Century, is also represented amongst the other English makers whose watches are in the Peiping Museum.

[See ILLUSTRATION]



82



83



84



85 A VERY IMPORTANT EARLY QUARTER-REPEATING VERGE WATCH, by Thomas Tompion, no. 144, the inner case hallmarked 1697, the movement secured into the case by secret latches, the gold champlevé dial with steel beetle and poker hands, the inner case pierced and engraved with scrolling foliage inhabited by birds and with landscape vignettes by the pendant and the opening, the case numbered by the pendant, 144, the back of the case with a small opening containing a regulating disc which connects with the regulator on the back of the movement when the movement is in the case, contained in leather-covered outer protecting case with gold pique decoration, in fish-skin covered hinged case, 53mm. diam., with gilt-metal crank key (2)

** This appears to be the earliest surviving recorded repeating watch. H. Marryat, *Watches*, Vol. I, London, 1938, refers to a Tompion repeater no. 150 as being the earliest surviving Tompion watch. See also G. H. Baillie, *Watches*, London, 1929, chapter 15, p. 307, etc., pl. 70, which gives a diagram of the repeating mechanism of no. 150.

The watch is opened by inserting a pin through the pierced edge of the case at the 12th minute; with another pin through the edge at the 14½ minute the steel bolt is pressed inwards. Pins at the 35½ and 44 minutes enable the steel bolt to be pressed, thus releasing the movement from the case. This complicated method of securing the watch was a security method, not against tampering by the customer, but to protect the design of the repeating work against copying by other watchmakers.

Due to the locking mechanism it will not be possible to open the watch while on view to examine the movement, which is in better mechanical order than usual.

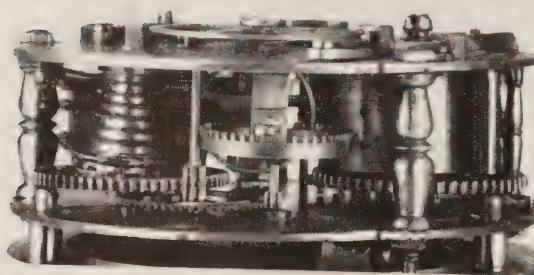
[See ILLUSTRATION]

86 A GOOD 16TH CENTURY CIRCULAR TABLE CLOCK, the verge movement with balance spring added, pinned on balance cock, the plates separated by turned baluster pillars with fusees for the going and striking trains, the alarm train with going barrel, the contrait being a steel wheel fixed to the top of the barrel, the count wheel mounted underneath the bell, which is in turn surmounted by the alarm disk, contained in gilt-metal case pierced with small door opposite the going train fusee, the band decorated with grotesque masks and scrollwork separating four classical vignettes, the case surmounted by a pierced dome covering the bell and supporting the chapter-ring, the base engraved in a similar manner to the band, and centred with a shield of arms, the movement is secured in the case by two latches held in position by a long double-ended steel spring pinned to a stud on the back-plate, in the base a later *inscription* within a ribbon *Pierre Avvray, 127mm. diam., 103mm. high*

** This is almost certainly French or Flemish work of the second half of the 16th Century.

[See ILLUSTRATION]





87 A CIRCULAR GILT-METAL TABLE CLOCK, the band of the case cast and decorated with strapwork, grotesque masks and fruit against a punched background, the small chapter-ring supported on a pierced and engraved dome, covering the bell and decorated with strapwork and grotesque masks, the centre of the dial silver, and engraved with flowers, the background filled with black mastic, the base with engraved ornament inside and out, and the date 1592, the steel movement with fusee to the going train with early long linked chain, the striking train with open main spring, the back-plate with two punch marks of the initials *HS* conjoined and a cross, fitted with a balance spring at a later date, standing on three lions couchant, 109mm. diam., 97mm. high, German, end of 16th Century, dome and dial restored

** These initials have been attributed to Hanns Schlottheim (Augsburg, Prague and Dresden), who died in 1625 and made clocks and automata for Emperor Rudolf II, but the presence of the shield containing a cross makes it more likely that it is the work of Johann (Hanns) Schönmann of Constance, who made the large automaton astronomical clock in 1558 and which is now in the Kunsthistorisches Museum, Vienna.



[See ILLUSTRATION]

Various Properties

88 AN IMPORTANT OPEN-FACED GOLD-CASED VERGE WATCH, subsequently converted to cylinder, by *Jacob Kock of Stockholm*, no. 459, the balance bridge pierced with addorsed Gs above three small crowns and surmounted by a fourth and containing the roman numeral III, the white enamel dial with diamond-set hands, the case plain except for slight engraved decoration around the closure and bezel, 57mm. diam., *circa* 1790

** Jacob Kock was clockmaker to Gustav III, and traditionally it was this watch that the King was wearing when he was assassinated.

89 A pair-cased verge Watch, no. 2406, *signed Jos. Sound, London*, the inner case gilt-metal, the outer case covered with shagreen; and a gold-cased open-face keyless lever Watch, the winding wheels with wolf's teeth (2)

90 A triple-cased verge Watch for the Turkish market, no. 36064, by *George Prior of London*, the two inner cases plain silver, the outer case shell-covered, the white enamel dial with Turkish numerals, 64mm. diam., *hallmarked*, 1791

91 AN UNUSUAL LARGE SILVER-CASED VERGE WATCH, by *David Louis Véron*, the white enamel dial with subsidiary calendar dial giving the day, month and date, the back of the case opening to reveal a large seconds dial with subsidiary dial for regulation, 78mm. diam., *Paris*, *circa* 1800

92 A SILVER-CASED ALARUM OIGNON, *by Baptiste Lenoir, Paris*, the alarum train with steel contrait and crown wheel and engraved barrel casing, the back-plate with large pierced and engraved balance cock, the white enamel dial marked with the hours only in blue, in the centre a gilt-metal disk with a pointer for the hours, and a reverse scale of hours for setting the alarum, the silver case pierced, 58mm. diam, *circa* 1700

93 A silver pair-cased alarum Watch, *signed Windmill, London*, the white enamel dial with black hour numerals only, the hand fixed to a rotating disk in the centre, the inner case pierced and engraved with inhabited foliage, the outer case also pierced and engraved, the back repoussé with baroque scrollwork enclosing a classical scene of Diogenes and Alexander, 54mm. diam., *circa* 1720

94 AN EARLY 17TH CENTURY LONG OCTAGONAL CRYSTAL WATCH CASE, with faceted back and cover, and original dial of engraved gilt-metal, the chapters centred with a riverside scene, later fitted with an especially made lever movement, *by Klaftenberger of Regent Street*, in original gilt-metal outer case, *length overall* 49mm.

95 THE MOVEMENT OF A VERGE TABLE CLOCK, *by Johann Sajller of Ulm*, with gilt-metal dial, with two series of chapters I-XII-XII, and I-Z4, in the centre an engraved landscape with figures round the border, fitted into an unusual brass case engraved with strapwork and covered with a dome surmounted by an armed warrior, supported by four pillars, *diam. of dial* 95mm., *height of case* 387mm.

** Johann Sajller was master in 1646 and died in 1668.

96 THE REMAINS OF AN EARLY 17TH CENTURY CLOCKWATCH, the movement complete between the plates but lacking the table of the pinned-on balance cock, and the count wheel, and later fitted with a tangent screw set-up, the back-plate with an engraved border, matching the dial-plate, with applied silver chapter-ring, and two rotating scales for the date, and age of the moon, in the centre, a third movable ring numbered 1-12-12 centred with a silver disc engraved for the phases of the moon, the inside rim of the lid engraved with a text, the lid and back of the case finely pierced and engraved with inhabited foliage similar to that round the band of the case, the pendant later, 49mm. diam., *probably English or Flemish, circa 1600*

97 A FINE REPOUSSÉ GOLD PAIR-CASED VERGE WATCH, *signed Helot, London*, with finely pierced and engraved balance bridge, the white enamel dial with arched minutes, unusual pierced steel hands, and aperture for the date, the inner case plain, the outer case repoussé with baroque scrollwork enclosing a scene of the grape harvest, 51mm. diam., *circa 1725*

98 A GOLD AND ENAMEL CASED VERGE WATCH, *no. 5364, signed Romilly*, the bezel and push set with diamonds, the case decorated with basse taille foliage, the back with a circular enamel miniature of a lake-side scene with a rock in the foreground with a romantic ruin and a fountain with washerwomen, 39mm. diam., *circa 1800*

99 BREGUET, *no. 2183*, sold to Monsieur Recordon on 8 January, 1810, for the sum of Fr. 2,000

A quarter-repeating ruby cylinder Watch, in plain gold case, *signed and numbered* on the gold cuvette, the white enamel dial with secret signature below the figure 12, 48mm. diam., with short gold chain and gold ratchet key, contained in morocco covered fitted box with spare glass, and a copy of certificate no. 2597 (3)

100 A SMALL TABERNACLE CLOCK, the fusee movement originally with balance but converted to pendulum, the gilt-metal case with floral decoration, the front with engraved dials, the upper for the hours I-XII, and 13-Z4, the lower one for the quarters, the reverse with strike indicating dial, on moulded base standing on four feet, surmounted by four turned acorn finials supporting the bell, the movement of brass, except for four steel corner pillars, *height overall 203mm.*, with wooden stand and glazed cover (3)

101 A HEXAGONAL TABLE CLOCK, the verge movement with hour striking and alarum, the gilt-metal case standing on winged ball and claw feet and with glazed panels at the side, the applied chapter-ring with touch-pieces and two rings of chapters I-XII, 13-24, with release for the striking train, *signed on the back-plate Fischer, Bautzen (Budissin), diam. of chapter-ring 78mm.*, in blind stamped leather covered carrying case, *German, 18th Century* (2)

102 A STEEL AND BRASS STACKFREEED CLOCK MOVEMENT, with hour-striking, both trains without fusee, later balance and balance spring, the dial with engraved spandrels and chapter-ring I-XII-XII, the centre with lunar volvelle giving the age, phase and lunar aspect and the difference between solar and lunar time, contained in contemporary rectangular gilt-metal case, the corners engraved with pilasters, the sides with scrolling foliage and birds, one side centred with a pierced and engraved roundel, the other three sides with oval reserves containing representations of Hope, Jonah escaping from the Whale and Christ walking on the waters, the movement with the punched initials *CB* flanking a shield, 115mm. square, *late 16th Century*

103 AN ATTRACTIVE TABERNACLE CLOCK, the gilt-metal case standing on engraved flared base, the corner pillars in the form of half-figure caryatids standing on engraved pillars with rectangular bases, the side panels decorated with engraved strapwork against a matted background, the front with similar engraving, in the upper half an applied brass chapter-ring centred with a gilt-metal alarum setting disc, below, an oval frame containing an oval enamel miniature of the Virgin and Child, the back of the clock, with strike indicating dial and lower dial with ten equal calibrations, at the top a pierced and engraved dome containing the bell and surmounted by a turned finial (the top and bottom secured to the movement by latches), both trains of the striking movement with fusee and largely of steel, the left side still with the alarum mechanism, the bar with the maker's punch mark PP contained in an oval reserve, standing on later giltwood ornamental stand, *height 214mm., late 16th Century*

** It is most unusual for the alarum work to survive on these early clocks, and as the long vertical bar was a favourite place for makers to put their marks, there is virtually no possibility of identifying the maker of the clock once the alarum work has been removed. The initials are only assumed to be PP, as the letter appears in the form of a short I surmounted by a U-shaped loop with the open end to the left.

END OF SALE

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SALE OF

FINE SCIENTIFIC INSTRUMENTS, WATCHES AND TABLE CLOCKS

Tuesday 25 June 1968

PRICES AND BUYERS' NAMES

	£	\$	Lot		£	\$
Pontet	45	108.00	47	Dideock	95	228.00
Pontet	50	120.00	48	Goldschmidt	85	204.00
Goldschmidt	55	132.00	49	Mannheimer	75	180.00
Mannheimer	100	240.00	50	Mannheimer	170	408.00
Mannheimer	120	288.00	51	Michel	330	792.00
Frank, C.	35	84.00	52	Frank, C.	80	192.00
Mannheimer	65	156.00	53	Goldschmidt	90	216.00
Hakim	65	156.00	54	Boufort	100	240.00
Mannheimer	85	204.00	55	Mannheimer	80	192.00
Crowther	40	96.00	56	Goldschmidt	125	300.00
Mannheimer	130	312.00	57	Nash	140	336.00
Muller, J.	50	120.00	58	Hakim	120	288.00
Graus Antiques	40	96.00	59	Delves	250	600.00
Smirl	34	81.60	60	Pontet	100	240.00
Ekstein	160	384.00	61	Pontet	130	312.00
Pope	75	180.00	62	Goldschmidt	200	480.00
Mannheimer	150	360.00	63	Seligman	800	1,920.00
Goldschmidt	50	120.00	64	Goldschmidt	170	408.00
Frank, C.	45	108.00	65	Pontet	150	360.00
Hogg, K. S.	260	624.00	66	Baer, H.	320	768.00
Frank, C.	25	60.00	67	Brocklehurst	420	1,008.00
Herdson	300	720.00	68	Hakim	300	720.00
Tomba	300	720.00	69	Seuter	950	2,280.00
Frank, C.	32	76.80	70	Mannheimer	340	816.00
Horner	480	1,152.00	71	Mannheimer	550	1,320.00
Mark	200	480.00	72	Denton	720	1,724.00
Cuss, Camerer	70	168.00	73	Gould	55	132.00
Brocklehurst	32	76.80	74	Graus Antiques	45	108.00
Withdrawn			75	Montanaro	85	204.00
Sykes, C.	50	120.00	76	Graus Antiques	140	336.00
Standish	70	168.00	77	Graus Antiques	100	240.00
Winthrop	68	173.20	78	Mannheimer	520	1,248.00
Goldschmidt	350	840.00	79	Mannheimer	400	960.00
Brocklehurst	155	372.00	80	Nileb	500	1,200.00
Chatal	85	204.00	81	Dryon, H.	500	1,200.00
Clark, A. G. M.	60	144.00	82	Graus Antiques	400	960.00
Graus Antiques	48	115.20	83	Graus Antiques	350	840.00
Mannheimer	130	312.00	84	Dryon, H.	480	1,152.00
Scotmus	540	1,296.00	85	Atwood, S. G.	4,400	10,320.00
Pontet	290	696.00	86	Graus Antiques	950	2,280.00
Bonfort, J. N.	100	240.00	87	Worsley	720	1,724.00
Goldschmidt	1,500	3,600.00	88	Lavender	130	312.00
Pontet	260	624.00	89	Coole	60	144.00
Frank, C.	35	84.00	90	Pope	32	76.80
Scotmus	180	432.00	91	Graus Antiques	200	480.00
Buck	72	172.80	92	Coole	170	408.00
Frank, C.	65	156.00	93	Steinhardt	110	264.00

Lot	£	\$	Lot	£	\$
94 Williams	130	312.00	101 Mannheimer	400	960.00
95 Wellby	850	2,040.00	102 Chatal	300	720.00
96 Mannheimer	280	672.00	103 Mannheimer	600	1,440.00
97 Drager	160	384.00	Total of Sale		
98 Montanaro	100	240.00		£27,978	\$33,573.60
99 Winthrop, J. A.	560	1,344.00			
100 Chatal	210	504.00			

NOTE: For the purpose of this list, dollar equivalents of sterling have been calculated 2.40 dollars to the pound. Actual dollar equivalents will vary according to the rate of exchange.

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Sotheby & Co.

P.O. Box 2AA, 34/35 New Bond Street, London W.1.

Telephone: 01-493 7242. *Telex:* London 24454

Telegrams: Abinitio, London.

NEW YORK

Parke-Bernet Galleries Inc.

980 Madison Avenue, New York 10021.

Telephone: 212-879-8300. *Telex:* New York 222643

Telegrams: Parkgal, New York.

Sotheby's of London Ltd.

980 Madison Avenue, New York 10021.

Telephone: 212-758-2891. *Telegrams:* Abinitio, New York.

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The Executive Life Building,

Suite 904,

9777 Wilshire Boulevard,

Beverly Hills, California 90210.

Telephone: 213-274-7329. *Telex:* 677120

PARIS

Paris Representative for

Sotheby & Co.

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Valentine Abdy

8 Rue de Duras, Paris 8e.

Telephone: ANJOU 2599

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